

FIG. 1

	Coating Amount (Parts by Wt.)	Increasing rate of accumulative pore volume (%)	mesopore volume (cc/g)	Increasing rate of mesopore volume (After coating/ before coating) (%)	BET specific surface area (m ² /g)	σ/D	R	H/C	Oxidation corrosion rate Wt%	Electrolytic solution	Discharge capacity mAh/g	Residual capacity rate (%) (Discharge capacity (-5°C)/ Discharge capacity (25°C))	Initial efficiency (%)	Irreversible capacity mAh/g
Ex. 1	5	30.5	0.0051	28.3	2.3	0.012	0.34	< 0.01	2.96	EC/DMC	358	-	92.1	28.2
Ex. 2	2	9.3	0.0083	46.1	3.0	0.015	0.37	< 0.01	1.81	EC/DMC	358	-	90.4	38.1
Ex. 3	8	10.7	0.0060	33.3	2.5	0.0085	0.35	< 0.01	3.53	EC/DMC	354	-	91.1	34.5
Ex. 4	8	10.7	0.0060	33.3	2.5	0.0085	0.35	< 0.01	3.53	EC/PC	360	-	89.2	43.6
Ex. 5	5	11.5	0.0083	29.5	3.1	0.011	0.34	< 0.01	2.84	EC/DMC	360	-	93.2	26.3
Ex. 6	5	15.3	0.0055	20.9	1.6	0.008	0.34	0.2	2.77	EC/DMC	365	-	93.4	25.9
Ex. 7	5	30.5	0.0051	28.3	2.3	0.012	0.34	< 0.01	2.96	EC/DEC	364 (25°C) 311 (-5°C)	85.6	93.3 (25°C) 81.3 (-5°C)	26.0 (25°C) 71.8 (-5°C)
Compara. Ex. 1	1	0.2	0.0135	75.0	3.7	0.018	0.20	< 0.01	0.13	EC/DMC	357	-	87.4	51.3
Compara. Ex. 2	23	-13.2	0.0055	30.6	1.7	0.007	0.51	< 0.01	19.9	EC/DMC	340	-	90.8	37.2
Compara. Ex. 3	5	17.4	0.0050	27.8	2.6	0.012	0.47	0.02	1.00	EC/DMC	361	-	85.2	62.5
Compara. Ex. 4	5	21.4	0.0063	35.0	2.4	0.012	0.12	< 0.01	0.13	EC/DMC	357	-	87.6	50.4
Compara. Ex. 5	5	21.4	0.0063	35.0	2.4	0.012	0.12	< 0.01	0.13	EC/PC	321	-	20.8	1,222.3
Compara. Ex. 6	5	21.8	0.0202	23.2	7.6	0.032	0.31	< 0.01	2.13	EC/DMC	350	-	80.0	87.5
Compara. Ex. 7	0	-	0.0180	-	5.4	0.014	0.18	< 0.01	0.26	EC/PC	361	-	82.2	78.2
Compara. Ex. 8	0	-	0.0180	-	5.4	0.014	0.18	< 0.01	0.26	EC/DEC	365 (25°C) 246 (-5°C)	67.4	91.9 (25°C) 61.1 (-5°C)	32.2 (25°C) 154.6 (-5°C)

